SEMESTER EXAMINATION, DECEMBER, 2025

Course Name: - B Tech **Semester:- viith**

Paper Name: - Cloud Computing **Paper Code:- TCS-074**

Time - 3 Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. **Max Marks-70**

समय– 3 घण्टे + 20 मिनट प्रति घंटे अतिरिक्त–दृष्टिबाधित एवं सह लेखक परीक्षार्थियों के लिए। अधिकतम अंक–70

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries **3 mark. All questions are compulsory.**
- Section B- Answer any **5 out of 7** given questions. Each question carries **7 marks.**
- Section C- Answer any **2 out of 3** given questions. Each question carries **10 marks.**

Section – A (खण्ड–अ)

Multiple Choice Questions (बहुविकल्पीय प्रश्न)

1. Answer all the following questions. **5x3 =15**

निम्नलिखित सभी प्रश्न अनिवार्य हैं।

i) What is Cloud Computing?
   a) Cloud Computing means providing services like storage, servers, database, networking, etc
   b) Cloud Computing means storing data in a database
   c) Cloud Computing is a tool used to create an application
   d) None of the mentioned

ii) Which of the following services is typically offered as Infrastructure as a Service (IaaS)?
   a) Google Docs
   b) Microsoft Azure Virtual Machines
   c) Salesforce CRM
   d) Dropbox

iii) Which of the following is a type of cloud computing service?
   a) Service-as-a-Software (SaaS)
   b) Software-and-a-Server (SaaS)
   c) Software-as-a-Service (SaaS)
   d) Software-as-a-Server (SaaS)

iv) Applications and services that run on a distributed network using virtualized resources is known as _____
   a) Parallel computing
   b) Soft computing
   c) Distributed computing
   d) Cloud computing

v) Which of the following architectural standards is working with cloud computing industry?
   a) Web-application frameworks
   b) Service-oriented architecture
   c) Standardized Web services
   d) All of the above

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Section – B (खण्ड–ब)

Short Answer Questions (लघुउत्तरीय प्रश्न)

2. Answer any five of the following questions. **5x7=35**

निम्नलिखित में से किन्हीं पाँच प्रश्नों के उत्तर दें।

i. Explain Cloud Security Defence Strategies in cloud computing?

ii. What are the challenges in managing a cloud environment?

iii. Explain about the evolution of cloud applications from stand-alone applications

iv. Write in detail about the characteristics, suitability and pros & cons of SaaS

v. Write about Google Cloud Storage and Google Cloud Connect. Write in detail about AWS.

vi. Write about IBM Cloud Models? Write about MS Windows Azure.

vii. Draw the cloud Architecture? What are the features of cloud management?

Section – C (खण्ड–स)

Descriptive Questions (विवरणात्मक प्रश्न)

3. Answer any two of the following question. **2x10=20**

निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर दें।

i) What is cloud computing? Explain its architecture. Advantages and disadvantages of cloud computing? What are the layers in the cloud?

ii) Explain the motivation and need for cloud computing? Explain the requirements for cloud services? Write about IaaS?

iii) Short Note

a) Load balancing Techniques
b) Scalability and Elasticity
c) Billing
d) Virtual machine Creation and Management

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